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GR-304

Homoharringtonine

98%, MW=545.6 [26833-87-4] Storage: -20°C

Homoharringtonine is a cephalotaxine alkaloid that induces heat protection and facilitates dissociation of heat shock transcription factor and heat shock element complex⁹⁹. Shows antiproliferative activity in various cancer cell lines^{100,101}.

5 mg

5 x 5 mg

Search Report

10/617927

1: J Pharm Biomed Anal. 2000 Apr;22(3):541-54.

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ELSEVIER
FULL-TEXT ARTICLE

Stability-indicating LC assay of and impurity identification in homoharringtonine samples.

He J, Cheung AP, Wang E, Struble E, Fang K, Nguyen N, Liu P.

SRI International, Biopharmaceutical Development Division, Menlo Park, CA 94025, USA.
jingyi@pearl.sri.com

Homoharringtonine (HHT) is a potent myelosuppressive agent and has antitumor activity. Recent studies suggest that it inhibits tumor growth by inducing apoptosis. HHT is an ester of the alkaloid cephalotaxine. It is isolated from genus *Cephalotaxus*. At least ten HHT analogs have been identified from cephalotaxus extracts. High performance liquid chromatography (HPLC) separations of the cephalotaxine alkaloids in plant extracts have been reported, they have not been validated as specific and stability-indicating for HHT. Due to the complexity of the alkaloid extracts, it is conceivable that additional analogs may still be unresolved from HHT. This paper presents an improved and validated HPLC assay for HHT. The assay is stability-indicating, precise (R.S.D. < 1%), linear ($r^2 = 0.9999$), and accurate (error < 1%). The assay reveals three congeners present as impurities in HHT samples. Two are new and have not been previously reported. Identities of the impurities and forced decomposition products, elucidated with their HPLC retention and spectral data, are also presented.

ARTICLES

Homoharringtonine: an effective new drug for remission induction in refractory nonlymphoblastic leukemia

RP Warrell Jr, CJ Coonley and TS Gee

Homoharringtonine (HHT) is a new plant alkaloid originally isolated in the People's Republic of China. Preliminary studies have suggested antitumor activity in several neoplastic diseases. We treated 49 patients with relapsed or resistant acute leukemia with escalating doses of homoharringtonine administered by continuous infusion. Three dose levels were examined: 5 mg/m² for seven days, 7 mg/m² for seven days, and 5 mg/m² for nine days. Of 28 patients with acute nonlymphoblastic leukemia who received cumulative doses of 45 to 49 mg/m², seven patients (25%) achieved complete remission. Four of these remissions occurred in a subset of ten patients previously resistant to two or more induction attempts with conventional chemotherapy. There were no remissions in three patients with secondary leukemia or in seven patients with acute lymphoblastic leukemia. Reversible hypotension, fluid retention, diarrhea, and tumor lysis syndrome were the major toxic effects of this treatment. Our results indicate that homoharringtonine is an effective new drug for the treatment of acute nonlymphoblastic leukemia and that this drug does not share cross-resistance with conventional antileukemic agents. The recommended dose is 5 mg/m²/d administered by continuous infusion for nine days.

**BIOTREND Chemikalien GmbH(Part 5)**

...Homoharringtonine Daidzein Resveratrol D-myo-Inositol 1,3,4,5- MAFP DCEBIO DCEBIO (S)-(+)-Dimethindene maleate (S)-(+)-Dimethindene maleate PPT PPT Citalopram Hydrobromide Citalopram Hydrobromide Amyloid...

<http://www.chembuyersguide.com/partners/biotrend5.html>

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SALICYLIC ACID, ADENOSINE, ALBUMIN (BOVINE), BENZOIC ACID, BETAMETHASONE, Bismuth Oxychloride, CHONDROITIN ...

...Homoharringtonine CAS NO: 26833-87-4 Homopiperonylamine CAS NO: 1484-85-1 Homovanillic Acid CAS NO: 306-08-1 Homoveratronic acid CAS NO: Homoveratrylamine CAS NO: Honeysuckle Flower CAS NO: Honeysuckle Flower...

<http://www.chembuyersguide.com/partners/alfachem2.html>

→ Alchemy Importers, Inc.

...Homoharringtonine CAS NO: 26833-87-4 Hydroquinone CAS NO: 123-31-9 Ibandronate Sodium CAS NO: 138926-19-9 Ibuprofen CAS NO: 58560-75-1 Ibuprofen CAS NO: 15687-27-1 Icariin CAS NO: 489-32-7 imidazole CAS NO:...

<http://www.chembuyersguide.com/partners/alchemy.html>

→ Aktin Chemicals, Inc.

...Homoharringtonine CAS NO: 26833-87-4 98% ACN-100 Honokiol CAS NO: 35354-74-6. 98% ACN-101 Huperzine A CAS NO: 102518-79-6 98% ACN-102 Hyodesoxycholic acid CAS NO: 83-49-8 98% ACN-103 Hyperoside CAS NO:...

<http://www.chembuyersguide.com/partners/aktin.html>

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homoharringtonine

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NO: 123-31-9 Hydroxycitronellal...

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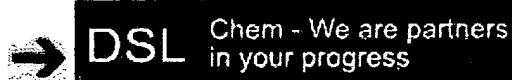
➔ **Fleton Reference Substance Co.,Ltd**

...Homoharringtonine CAS NO: 26833-87-4 98% Huperzine A CAS NO: 102518-79-6 98%

Hypaconitine 96% Hyperoside CAS NO: 482-36-0 98% L-5-Hydroxytryptophan CAS NO: 114-03-4

98% Icariin CAS NO: 489-32-7 98%...

<http://www.chembuyersguide.com/partners/fleton.html>



DSL Chemicals (Shanghai) Co.,Ltd(Part 2)

...Homoharringtonine 26833-87-4 Homopiperonylamine 1484-85-1 Hydantoin 461-72-3

Hydrocortisone Sodium Succinate 125-04-2 Hydralazine HCl 304-20-1 Hydrazine Sulfate 10034-93-2

Hydrobromic Acid 10035-10-6...

<http://www.chembuyersguide.com/partners/dsl2.html>



Dayang Chemicals Co. Ltd.

(Part 2)

...homoharringtonine CAS NO: 26833-87-4 Homoharringtonine CAS NO: 35354-74-6 Honokiol

CAS NO: 5/9/3595 Hordenine CAS NO: Horse Chestnut P.E. CAS NO: 7631-86-9 Horsetail P.E. CAS

NO: 74163-81-8 H-Tic-OH CAS NO:...

<http://www.chembuyersguide.com/partners/dayang2.html>

➔ **ChromaDex Inc.**

...HOMOHARRINGTONINE(P) Molecular Formula: C₂₉H₃₉NO₉ CAS NO: 26833-87-4 ASB-

00008315-010 HOMOHARRINGTONINE(P) Molecular Formula: C₂₉H₃₉NO₉ CAS NO: 26833-87-

4 ASB-00008315-025 HOMOHARRINGTONINE(P) Molecular Formula:...

<http://www.chembuyersguide.com/partners/chromadex.html>

➔ **CHEMOS GmbH(Part 1)**

...Homoharringtonine Homoharringtonine 26833-87-4 ILEXONIN A 95% ILEXONIN A 95%

KAIWAN 40% KAIWAN 40% (+)-LAPPACONITINE 95% (+)-LAPPACONITINE 95% 32854-75-4

LOBELIDINE 95%, 98% LOBELIDINE 95%, 98% 90-69-7...

<http://www.chembuyersguide.com/partners/chemos.html>



Brainerd Chemical Company, Inc. (Part 1)

...HOMOHARRINGTONINE HOMOPHTHALIC ACID HOMOTAURINE HOMOVANILLIC
ACID HOMOVANILLYL ALCOHOL HOPKINS-COLE REAGENT SOLUTION HOPKINS-COLE
REAGENT, BENEDICT'S MODIFICATION SOLUTION HOSHIDA'S REAGENT SOLUTION
HOYER'S AMMONIUM...

<http://www.chembuyersguide.com/partners/...>

→ **NetQem, LLC**

...**Homoharringtonine** CAS NO: 26833-87-4 Horsetail P.E CAS NO: Horse Chestnut P.E. CAS NO: Huperzia Serrate P.E. CAS NO: Huperzine A CAS NO: 102518-79-6 3-Hydroxy-3-methylpentanedioic Acid (HMG) CAS NO: 503-49-1...

<http://www.chembuyersguide.com/partners/netqem.html>

→ **Natland International Corporation**

...**Homoharringtonine** (HHT) CAS NO: 26833-87-4 Luteolin (natural) CAS NO: 491-70-3 Lycorine CAS NO: 476-28-8 Naringenin (natural) CAS NO: 93602-28-9 Paclitaxel CAS NO: 33069-62-4 Podophyllotoxin CAS NO: 518-28-5...

<http://www.chembuyersguide.com/partners/natland.html>



Molekula Group

...**Homoharringtonine** CAS NO: [26833-87-4] M64283385 Homophthalic acid (2-Carboxyphenylacetic acid) CAS NO: [89-51-0] M68511661 Homophthalic anhydride (2-Carboxyphenylacetic anhydride) CAS NO: [703-59-3] M83210533...

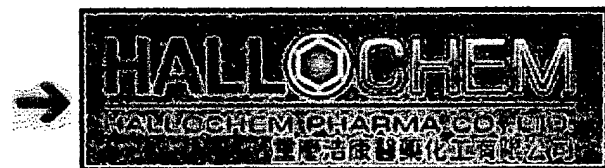
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MP Biomedicals (Part 2)

...**HOMOHARRINGTONINE** 26833-87-4 **HOMOHARRINGTONINE** 26833-87-4 **HOMOHARRINGTONINE** 26833-87-4 **HOMOPIPERAZINE** 505-66-8 **HOMOPIPERAZINE** 505-66-8 **DL-HOMOSERINE LACTONE** 6305-38-0 **HOMOVANILLYL ALCOHOL** 2380-78-1...

<http://www.chembuyersguide.com/partners/icnbiomed2.html>



Hallochem Pharma Co., Ltd.

...**HOMOHARRINGTONINE** CAS NO: 26833-87-4 **TIMOLOL MALEATE** CAS NO: 26839-75-8 **PENFLURIDOL** CAS NO: 26864-56-2] 3-(1,3-Benzodioxol-5-Yl)-2-Propenoyl Chloride CAS NO: 26930-49-4 Ceftezole sodium CAS NO: 26973-24-0...

<http://www.chembuyersguide.com/partners/hallochem.html>

→ **GREAT CHEMICAL ENTERPRISE CO., LTD.**

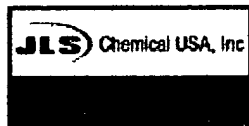
...**Homoharringtonine** CAS NO: 26833-87-4 Hops flower extract CAS NO: 8060-28-4 Horsechestnut extract CAS NO: 8053-39-2 Horsetail extract Huperzine A CAS NO: 120786-18-7 Hydroquinone CAS



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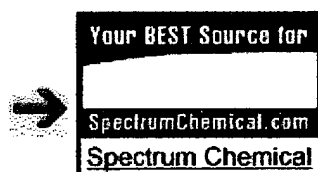
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SEARCH RESULTS 1 - 20 of 21 total results for homoharringtonine

➔ Yick-Vic Chemicals & Pharmaceuticals (HK) LtdPart 2

...**Homoharringtonine** 26833-87-4 Human Albumin Human Gamma Globulin Human Chorionic Gonadotrophin Interferon Alpha-1Beta 9008-11-1 Interferon Alpha-2Beta 99210-65-8 3-Hydroxy-3-Methylglutaric Acid 503-49-1 Human Plasma...
<http://www.chembuyersguide.com/partners/yickvic2.html>



➔ Spectrum Chemicals & Laboratory Products, Inc. (Part 1)

...**Homoharringtonine** CAS: 26833-87-4 Homophthalic Acid CAS: 89-51-0 Homosalate CAS: 118-56-9 D-Homoserine CAS: 6027-21-0 DL-Homoserine CAS: 1927-25-9 L-Homoserine CAS: 672-15-1 L-Homoserine Lactone Hydrochloride...
<http://www.chembuyersguide.com/partners/spectrum.html>

➔ SK Energy & Chemical





















...**Homoharringtonine** CAS NO: 26833-87-4 2-Methyl-beta-naphthiazole CAS NO: 2682-45-3 2-Methyl-3(2H)-isothiazolone CAS NO: 2682-20-4 Amoxicillin CAS NO: 26787-78-0 Sodium azide CAS NO: 26628-22-8 Diazo-2,1,5-sodium salt...
<http://www.chembuyersguide.com/partners/skechem.html>



➔ Sciencelab.com, Inc.

...**Homoharringtonine** Synonym Name: CAS NO: CAS 26833-87-4 Homophthalic Acid Synonym Name: 2-Carboxyphenylacetic Acid; alpha-Carboxy-o-toluic Acid CAS NO: CAS 89-51-0 Homosalate Synonym Name: Homomenthyl Salicylate CAS NO: CAS...
<http://www.chembuyersguide.com/partners/sciencelab.html>

results : homoharringtonine

-  10/13/2005 [Sorcin, an important gene associated with multidrug-resistance in human leukemia cells - \(*Leukemia Res*\)](#)
-  08/17/2005 [The potential prognostic influence of granulocyte-colony stimulating factor in acute leukemia - \(*Chin J Inter*\)](#)
-  03/31/2005 [TopAbstracts in Leukemias 03/31/2005 - \(*DGNews*\)](#)
-  03/25/2005 [Phase I/II trial of adding semisynthetic homoharringtonine in chronic myeloid leukemia patients who have a partial or complete cytogenetic response on imatinib - \(*Cancer*\)](#)
-  09/28/2004 [Investigational strategies in chronic myelogenous leukemia - \(*Hematol Oncol Clin North Am*\)](#)
-  09/19/2003 [Imatinib Combination Regimens May Improve Prognosis in Patients With Chronic Myelogenous Leukaemia - \(*Cancer - DGReview*\)](#)
-  09/04/2003 [TopAbstracts in Leukemias 09/04/2003 - \(*DGNews*\)](#)
-  08/29/2003 [Results of triple therapy with interferon-alpha, cytarabine, and homoharringtonine, and the impact of adding it to the treatment sequence in patients with Philadelphia chromosome-positive chronic myelogenous leukemia chronic phase - \(*Cancer*\)](#)
-  02/10/2003 [Advanced-phase chronic myeloid leukemia - \(*Semin Hematol*\)](#)
-  12/03/2002 [Drug responses of imatinib mesylate-resistant cells: synergism of imatinib with other chemotherapeutic drugs. - \(*Leukemia*\)](#)
-  05/17/2002 [In vitro effects of STI 571-containing drug combinations on the growth of Philadelphia-positive chronic myelogenous leukemia cells - \(*Cancer*\)](#)
-  04/05/2002 [Simultaneous homoharringtonine and interferon-\[alpha\] in the treatment of patients with chronic-phase chronic myelogenous leukemia - \(*Cancer*\)](#)
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-  10/23/2001 [Homoharringtonine Reduces Resistance to STI571 in Patients with Chronic Myelogenous Leukemia: Present ICMMS - \(*DGDispatch*\)](#)
-  10/10/2001 [Homoharringtonine: History, current research, and future directions - \(*Cancer*\)](#)
-  08/17/2001 [A phase II study of homoharringtonine for the treatment of children with refractory or recurrent acute myeloid leukemia: A pediatric oncology group study - \(*Med Pediatr Oncol*\)](#)
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-  10/24/2000 [Homoharringtonine and Low-Dose Cytarabine in the Management of Late Chronic-Phase Chronic Myelogenous Leukemia - \(*J Clin Oncol*\)](#)
-  11/03/1998 [Characterization of H⁺-ATPase-dependent activity of multidrug resistance-associated protein in homoharringtonine resistant human leukemic K562](#)

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100. L.J. Wilkoff *et al.* *Cancer Chemother. Pharmacol.* 1993 **33** 149
101. J.Y. Zhou *et al.* *Cancer Res.* 1990 **50** 2031

LONG-TERM EFFECT OF HOMOHARRINGTONINE ON CHRONIC GRANULOCYTIC LEUKEMIA

LI Yu-feng, ZHU Jia-bin, W Chun-ling, D Bang-he, ... - 中国癌症杂志 (2005), 2005 - 中国癌症杂志
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Homoharringtonine induces apoptosis of endothelium and down-regulates VEGF expression of K562 cells

Journal of Zhejiang University Science (2004), 2004 - 2004
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YE Xiu-jin, LIN Mao-fang - zju.edu.cn
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Homoharringtonine mediates myeloid cell apoptosis via upregulation of pro-apoptotic bax and inducing ...

L Yinjun, J Jie, X Weilai, T Xiangming - American Journal of Hematology, 2004 - doi.wiley.com
 ... DOI: 10.1002/ajh.20100 American Journal of Hematology 76:199-204 (2004) ... Bull
 Cancer 1995; 82:987-995. ... 15. Cai Z, Lin M, Wuchter C, et al.

HPLC